I TENT COOPERATION TRE/ Y

| To: | | | | | PCT | | | |
|--|---|---|--|---|---|---|--|--|
| STU Via | Viotti, | TOR 9 | TA S.r.I. NO | | WRITTEN OPINION | | | |
| I-10121 TORINO ITALIE | | | | | (PCT Rule 66) | | | |
| | | | | | Date of mailing (day/month/y-ar) | 29.12.2004 | | |
| | cant's 961.0 | | nt's file reference | | REPLY DUE | within 2 month(s) from the above date of mailing | | |
| | | | | International filing date (e 29.12.2003 | day/month/year) | Priority date (day/month/year) 30.12.2002 | | |
| | national H7/12 | | ent Classification (IPC) or | both national classification | and IPC | q | | |
| Appi DA' | | EUR | OPE S.R.L. ET AL | | | | | |
| 1. | This | writte | en opinion is the first o | Irawn up by this Internal | tional Preilminary Ex | amining Authority. | | |
| 2. | This | opini | on contains Indications | relating to the following | items: | | | |
| | 1 | × | Basis of the opinion | | | | | |
| | II D Priority | | | | | | | |
| | Ш | | Non-establishment o | opinion with regard to | novelty, inventive ste | p and industrial applicability | | |
| | IV | | Lack of unity of inver | ition | | | | |
| | ٧ | \boxtimes | Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited | | | | | |
| | VI | | | | | | | |
| | VII | | | international applicatio | | | | |
| | VIII | | Certain observations | on the international app | pilcation | | | |
| з. | The applicant is hereby invited to repty to this opinion. | | | | | | | |
| | Whe | n? | See the time limit indica request this Authority to | ited above. The applicant r grant an extension, see R | nay, before the expiration the 66.2(d). | on of that time ilmit, | | |
| | How? By submitting a written For the form and the last | | | reply, accompanied, where nguage of the amendments | appropriate, by amend s, see Rules 66.8 and 66 | ments, according to Rule 66.3. 5.9. | | |
| | Also | • | For the examiner's obile | tunity to submit americhmen pation to consider amendm nication with the examiner, | ents and/or arguments. | see Rule 66.4 bls. | | |
| | lf no | reply | is filed, the international | preliminary examination re | port will be established | on the basic of this opinion. | | |
| The final date by which the international pre examination report must be established according. | | national preliminary bilshed according to Ru | le 69.2 is: 30.04.200 | 5 | | | | |
| | | | | | | | | |
| Name and mailing address of the international preliminary examining authority: | | | | | Authorized Officer | Jan Prince | | |
| preliminary examining autrority: | | | | | Goaman F | | | |



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Formatities officer (Incl. extension of time limits)
De Jager, R





| | Basis | 44 | 2 |
|--|-------|--------|-------|
| | | | |

 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as 'originally filed"):

| | De | escription, Pages | | | | | |
|----|------|---|---|--|--|--|--|
| | 1- | 13 | as originally filed | | | | |
| | C | aims, Numbers | | | | | |
| | 1- | В | as originally filed | | | | |
| | Dr | awings, Sheets | | | | | |
| | 1/4 | 1-4/4 | as originally filed | | | | |
| 2 | . Wi | With regard to the language, all the elements marked above were available or furnished to this Authority in th language in which the international application was filed, unless otherwise indicated under this item. | | | | | |
| | Th | ese elements were | available or furnished to this Authority in the following language: , which is: | | | | |
| | | the language of pu | translation furnished for the purposes of the international search (under Rule 23.1(b)), bilication of the international application (under Rule 48.3(b)), translation furnished for the purposes of international preliminary examination (under 5.3). | | | | |
| 3. | . Wi | With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: | | | | | |
| | | contained in the in | ternational application in written form. | | | | |
| | | filed together with the international application in computer readable form. | | | | | |
| | | furnished subsequently to this Authority in written form. | | | | | |
| | | furnished subsequently to this Authority in computer readable form. | | | | | |
| | | m the international | the subsequently fumished written sequence listing does not go beyond the disclosure application as filed has been fumished. | | | | |
| | | The statement that listing has been fur | the Information recorded in computer readable form is identical to the written sequence mished. | | | | |
| 4. | The | amendments have | resulted in the cancellation of: | | | | |
| | | the description, | pages: | | | | |
| | | the claims, | Nos.: | | | | |
| | | the drawings, | sheets. | | | | |
| 5. | | This opinion has be | en established as if (some of) the amendments had not been made, since they have | | | | |

6. Additional observations, if necessary:

been considered to go beyond the disclosure as filed (Rule 70.2(c)).

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

1. Statement

Claims 1,7,8

Claims

Novelty (N) Inventive step (IS)

Claims 1,5,6,7,8

Industrial applicability (IA)

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2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: WO 00/77422 A (SCHAEFFLER WAELZLAGER) 21 December 2000 (2000-12-21)
 - D2: US-A-5 919 107 (STEPNIAK JACEK) 6 July 1999 (1999-07-06)
 - D3: US-A-4 906 222 (HENDERSON DEWEY D) 6 March 1990 (1990-03-06)
- The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses on page 12, paragraph 2 (the references in parentheses applying to this document): A two-arm belt tensioner for a belt drive, comprising: a fixed portion (32), designed to be fixed to a supporting structure; a first arm (7) and a second arm (8), carried by said fixed portion (54) and hinged thereto about a common axis; a first pulley (20) and a second pulley (21), mounted idle on respective ends of said arms (7,8) and designed to co-operate with respective branches (23a, 23b) of a belt (23) of said drive; and elastic means (14), which force said arms (7,8) towards one another to maintain said pulleys (20, 21) in contact with said respective branches (23a, 23b) of the belt (23), said arms (23, 24) comprise respective first arrest elements, which are designed to interact with said fixed portion (32) to define respective first positions of arrest of said arms (7.8) under the action of said elastic means (27), and respective second arrest elements, which are designed to interact with said fixed portion (32) to define respective second positions of end-of-travel of said arms (7.8) under the action of the pull of said belt. The subject-matter of claim 1 is therefore not novel (Article 33(2) PCT).
- 3. The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses on page 12, paragraph 2 (the references in parentheses applying to this document); A bett drive for connecting a reversible electric machine (2) being operable as an electric machine for starting said internal combustion engine or a generator, said drive comprising; at least one first pulley (24) fitted on the engine shaft of said internal combustion engine; a second pulley (18) fitted on a shaft of said electric machine (2); and a belt (23) wound around said pulleys (18, 24), said belt (23) comprising; a first branch (23e) and a second branch (23b) set respectively between said first pulley (18), and said second

pulley (24) and between said second pulley (24) and said first pulley (18) in the direction of motion of the belt (23) itself; and a two-arm (7,8) belt tensioner, which comprises; a fixed portion (32), designed to be fixed to a supporting structure; a first arm (7) and a second arm (9), carried by said fixed portion (32) and hinged thereto abort a common axis; a first pulley (20) and a second pulley (21), mounted idle on respective ends of said arms (7,8) and designed to co-operate respectively with said first branch (23a) and with said second branch (23b) of said belt (23): and elastic means (14), which force said arms (7,3) towards one another to maintain said pulleys (20, 21) in contact with said respective branches (7. 8) of the beit (23); said arms (7,8) comprise respective first arrest elements, which are designed to interact with said fixed portion (32) to define respective first positions of arrest of said arms (7, 8) under the action of said elastic means (14); and respective second arrest elements, which are designed to interact with said fixed portion (32) to define respective second positions of end of travel of said arms (7,8) under the action of the pull of said belt (23). D1 also discloses the additional features of claim 8. The subject-matter of claims 7 and 8 is therefore not novel (Article 33(2) PCT).

- 4. The features of dependent claim 5 have already been employed for the same purpose in a similar belt tensioner, see document D2, column 2, line 19. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a belt tensioner according to document D1, thereby arriving at a tensioner according to claim 5. Thus, no inventive step is present in the subject-matter of claim 5 (Article 33(3) PCT).
- It is generally known to the person skilled in the art that the spring of document D1 is an equivalent to the spring of document D3 and can be interchanged with that feature where circumstances make it desirable. Hence, no inventive step is present in the subject-matter of claim 6 (Article 33(3) PCT).
- The subject-matter of claim 2 differs from this known tensioner in that an
 appendage defining an element of contrast for said first and second arrest
 elements of said first and second arms is fixed to the base plate. The
 subject-matter of claim 2 is therefore new (Article 33(2) PCT).

The problem to be solved may be regarded as to make a simple base plate.

Although an appendage defining an element of contrast for said first and second

arrest elements of an tensioner arm is known, using the same appendage for both tensioner arms is not known from nor is it rendered obvious by any available prior art document. Claims 3 and 4 are dependent on claim 2 and as such also meet the requirements of the PCT with respect to novelty and inventive step. The dependent claims 2-4 therefore meet the requirements of Articles 33(2) and 33(3) PCT.